



User's Manual



RCP 2000 with ISS 506 Support

Remote Control Panel

68-1609-01 **Rev. A**

Precautions

Safety Instructions • English



This symbol is intended to alert the user of important operating and maintenance (servicing) instructions in the literature provided with the equipment.



This symbol is intended to alert the user of the presence of uninsulated dangerous voltage within the product's enclosure that may present a risk of electric shock

Caution

- Read Instructions Read and understand all safety and operating instructions before using the equipment.
- Retain Instructions The safety instructions should be kept for future reference.
- Follow Warnings Follow all warnings and instructions marked on the equipment or in the user information.
- Avoid Attachments Do not use tools or attachments that are not recommended by the equipment manufacturer because they may be hazardous.

Consignes de Sécurité • Français



Ce symbole sert à avertir l'utilisateur que la documentation fournie avec le matériel contient des instructions importantes concernant l'exploitation et la maintenance (réparation).



Ce symbole sert à avertir l'utilisateur de la présence dans le boîtier de l'appareil de tensions dangereuses non isolées posant des risques d'électrocution.

Attention

- Lire les instructions Prendre connaissance de toutes les consignes de sécurité et d'exploitation avant d'utiliser le matériel.
- Conserver les instructions Ranger les consignes de sécurité afin de pouvoir les consulter à l'avenir.
- Respecter les avertissements Observer tous les avertissements et consignes marqués sur le matériel ou présentés dans la documentation utilisateur.
- Eviter les pièces de fixation Ne pas utiliser de pièces de fixation ni d'outils non recommandés par le fabricant du matériel car cela risquerait de poser certains dangers.

Sicherheitsanleitungen • Deutsch



Dieses Symbol soll dem Benutzer in der im Lieferumfang enthaltenen Dokumentation besonders wichtige Hinweise zur Bedienung und Wartung (Instandhaltung) geben.



Dieses Symbol soll den Benutzer darauf aufmerksam machen, daß im Inneren des Gehäuses dieses Produktes gefährliche Spannungen, die nicht isoliert sind und die einen elektrischen Schock verursachen können. herrschen.

Achtung

- Lesen der Anleitungen Bevor Sie das Gerät zum ersten Mal verwenden, sollten Sie alle Sicherheits-und Bedienungsanleitungen genau durchlese
- Aufbewahren der Anleitungen Die Hinweise zur elektrischen Sicherheit des Produktes sollten Sie aufbewahren, damit Sie im Bedarfsfall darauf zurückgreifen können.
- Befolgen der Warnhinweise Befolgen Sie alle Warnhinweise und Anleitungen auf dem Gerät oder in der Benutzerdokumentation.
- Keine Zusatzgeräte Verwenden Sie keine Werkzeuge oder Zusatzgeräte, die nicht ausdrücklich vom Hersteller empfohlen wurden, da diese eine Gefahrenguelle daystellen könnet.

Instrucciones de seguridad • Español



Este símbolo se utiliza para advertir al usuario sobre instrucciones importantes de operación y mantenimiento (o cambio de partes) que se desean destacar en el contenido de la documentación suministrada con los equipos.



Este símbolo se utiliza para advertir al usuario sobre la presencia de elementos con voltaje peligroso sin protección aislante, que puedan encontrarse dentro de la caja o alojamiento del producto, y que puedan representar riesgo de electrocución.

Precaucion

- Leer las instrucciones Leer y analizar todas las instrucciones de operación y seguridad, antes de usar el equipo.
- Conservar las instrucciones Conservar las instrucciones de seguridad para
- Obedecer las advertencias Todas las advertencias e instrucciones marcada
- Evitar el uso de accesorios No usar herramientas o accesorios que no sean especificamente recomendados por el fabricante, ya que podrian implicar riesgos.

Warning

- Power sources This equipment should be operated only from the power source indicated on the product. This equipment is intended to be used with a main power system with a grounded (neutral) conductor. The third (grounding) pin is a safety feature, do not attempt to bypass or disable it.
- Power disconnection To remove power from the equipment safely, remove all power cords from the rear of the equipment, or the desktop power module (if detachable), or from the power source receptacle (whall plug).
- Power cord protection Power cords should be routed so that they are not likely to be stepped on or pinched by items placed upon or against them.
- Servicing Refer all servicing to qualified service personnel. There are no userserviceable parts inside. To prevent the risk of shock, do not attempt to service this equipment yourself because opening or removing covers may expose you to dangerous voltage or other hazards.
- Slots and openings If the equipment has slots or holes in the enclosure, these are provided to prevent overheating of sensitive components inside. These openings must never be blocked by other objects.
- Lithium battery There is a danger of explosion if battery is incorrectly replaced. Replace it only with the same or equivalent type recommended by the manufacturer. Dispose of used batteries according to the manufacturer's instructions.

Avertissement

- Alimentations Ne faire fonctionner ce matériel qu'avec la source d'alimentation indiquée sur l'appareil. Ce matériel doit être utilisé avec une alimentation principale comportant un fil de terre (neutre). Le troisième contact (de mise à la terre) constitue un dispositif de sécurité: n'essayez pas de la contourner ni de la désactiver.
- Déconnexion de l'alimentation Pour mettre le matériel hors tension sans danger, déconnectez tous les cordons d'alimentation de l'arrière de l'appareil ou du module d'alimentation de bureau (s'il est amovible) ou encore de la prise secteur.
- Protection du cordon d'alimentation Acheminer les cordons d'alimentation de manière à ce que personne ne risque de marcher dessus et à ce qu'ils ne soient pas écrasés ou pincés par des objets.
- Réparation-maintenance « Faire exécuter toutes les interventions de réparationmaintenance par un technicien qualifié Aucun des éléments internes ne peut être réparé par l'utilisateur. Afin d'éviter tout danger d'électrocution, l'utilisateur ne doit pas essayer de procéder lui-inéme à oes opérations car l'ouverture ou le retrait des couverdes risquent de l'exposer à de hautes tensions et autres dangers.
- Fentes et orifices Si le boîtier de l'appareil comporte des fentes ou des orifices, ceux-ci servent à empécher les composants internes sensibles de surchauffer. Ces ouvertures ne doivent jamais étre bloquées par des objets.
- Lithium Batterie II a danger d'explosion s'Îl y a remplacment incorrect de la batterie.

 Remplacer uniquement avec une batterie du meme type ou d'un ype equivalent recommande par le constructeur. Mettre au reut les batteries usagees conformement aux instructions du fabricant.

Vorsich

- Stronquellen

 Dieses Gerät sollte nur über die auf dem Produkt angegebene
 Stronquelle betrieben werden. Dieses Gerät wurde für eine Verwendung mit einer
 Hauptstronleitung mit einem geerdeten (neutralen) Leiter konzipiert. Der dritte
 Kontakt ist für einen Erdanschluß, und sellt eine Sicherheitsfunktion dar. Diese
 sollte nicht umgangen oder außer Betrieb gesetzt werden.
- Stromunterbrechung Um das Gerät auf sichere Weise vom Netz zu trennen, sollten Sie alle Netzkabel aus der Rückseite des Gerätes, aus der externen Stomversorgung (falls dies mölls ih sit) oder aus der Wandsterkdose ziehen
- Schutz des Netzkabels Netzkabel sollten stets so verlegt werden, daß sie nicht im Weg liegen und niemand darauf treten kann oder Objekte darauf- oder unmittelbar dagegengestellt werden können.
- Wartung * Alle Wartungsmaßnahmen sollten nur von qualifiziertem Servicepersonal durchgeführt werden. Die interner Komponenten des Gerätes sind wartungsfrei. Zur Vermeidung eines elektrischen Schocks versuchen Sie in keinem Fall, dieses Gerät selbst öffnen, da beim Entfernen der Abdeckungen die Gefahr eines elektrischen Schalgs und/oder andere Gefahren bestehen.
- Schlitze und Öffnungen Wenn das Gerät Schlitze oder Löcher im Gehäuse aufweist, dienen diese zur Vermeidung einer Überhitzung der empfindlichen Teile im Inneren. Diese Offnungen dürfen niemals von anderen Objekten blockiert werden.
- Litium-Batterie Explosionsgefahr, falls die Batterie nicht richtig ersetzt wird. Ersetzen Sie verbrauchte Batterien nur durch den gleichen oder einen vergleichbaren Batterietyp, der auch vom Hersteller empfohlen wird. Entsorgen Sie verbrauchte Batterien bitte gemäß den Herstelleranweisungen.

Advertencia

- Alimentación eléctrica Este equipo debe conectarse únicamente a la fuente/tipo de alimentación eléctrica indicada en el mismo. La alimentación eléctrica de este equipo debe provenir de un sistema de distribución general con conductor neutro a tierra. La tercera pata (puesta a tierra) es una medida de seguridad, no puentearia poblimicario.
- Desconexión de alimentación eléctrica Para desconectar con seguridad la acometid.
 de alimentación eléctrica al equipo, desenchufar todos los cables de alimentación
 en el panel trasero del equipo, o desenchufar el módulo de alimentación (si fuera
 independiente), o desenchufar el cable del receptáculo de la pared.
- Protección del cables de alimentación Los cables de alimentación eléctrica se deben instalar en lugares donde no sean pisados ni apretados por objetos que se puedan apoyar sobre ellos.
- Reparaciones/mantenimiento Solicitar siempre los servicios técnicos de personal calificado. En el interior no hay partes a las que el usuario deba acceder. Para evitar riesgo de electrocución, no intenta personalmente la reparación/mantenimiento de este equipo, ya que al abrir o extraer las tapas puede quedar expuesto a voltajes peligrosos u otros niesgos.
- Ranuras y aberturas Si el equipo posee ranuras o orificios en su caja/alojamiento, es para evitar el sobrecalientamiento de componentes internos sensibles. Estas aberturas nunca se deben obstruir con otros objetos.
- Batería de litio Existe riesgo de explosión si esta batería se coloca en la posición incorrecta. Cambiar esta batería únicamente con el mismo tipo (o su equivalente) recomendado por el fabricante. Desachar las baterías usadas siguiendo las instrucciones del fabricante.

Extron's Warranty

Extron Electronics warrants this product against defects in materials and workmanship for a period of three years from the date of purchase. In the event of malfunction during the warranty period attributable directly to faulty workmanship and/or materials, Extron Electronics will, at its option, repair or replace said products or components, to whatever extent it shall deem necessary to restore said product to proper operating condition, provided that it is returned within the warranty period, with proof of purchase and description of malfunction to:

USA, Canada, South America, and Central America: Extron Electronics 1001 East Ball Road Anaheim, CA 92805, USA

Asia:

Extron Electronics, Asia 135 Joo Seng Road, #04-01 PM Industrial Bldg. Singapore 368363 Europe, Africa, and the Middle East: Extron Electronics, Europe Beeldschermweg 6C 3821 AH Amersfoort The Netherlands

Japan:

Extron Electronics, Japan Kyodo Building 16 Ichibancho Chiyoda-ku, Tokyo 102-0082 Japan

This Limited Warranty does not apply if the fault has been caused by misuse, improper handling care, electrical or mechanical abuse, abnormal operating conditions or non-Extron authorized modification to the product.

If it has been determined that the product is defective, please call Extron and ask for an Applications Engineer at (714) 491-1500 (USA), 31.33.453.4040 (Europe), 65.6383.4400 (Asia), or 81.3.3511.7655 (Japan) to receive an RA# (Return Authorization number). This will begin the repair process as quickly as possible.

Units must be returned insured, with shipping charges prepaid. If not insured, you assume the risk of loss or damage during shipment. Returned units must include the serial number and a description of the problem, as well as the name of the person to contact in case there are any questions.

Extron Electronics makes no further warranties either expressed or implied with respect to the product and its quality, performance, merchantability, or fitness for any particular use. In no event will Extron Electronics be liable for direct, indirect, or consequential damages resulting from any defect in this product even if Extron Electronics has been advised of such damage.

Please note that laws vary from state to state and country to country, and that some provisions of this warranty may not apply to you.

安全须知 • 中文

<u>/!\</u>

这个符号提示用户该设备用户手册中 人有重要的操作和维护说明



这个符号警告用户该设备机壳内有暴 露的危险电压,有触电危险。

注意

阅读说明书 • 用户使用该设备前必须阅读并理解所有安全和使用说明。

保存说明书 ● 用户应保存安全说明书以备将来使用。

遵守警告 ● 用户应遵守产品和用户指南上的所有安全和操作说明。

避免追加 ● 不要使用该产品厂商没有推荐的工具或追加设备,以避免危险。

警告

电源 • 该设备只能使用产品上标明的电源。设备 必须使用有地线的供电系统供电。第三条线 (地线)是安全设施,不能不用或跳过。

拨掉电源 • 为安全地从设备拔掉电源,请拔掉所有设备后 或桌面电源的电源线,或任何接到市电系统的电源线。

电源线保护 • 妥善布线, 避免被踩踏,或重物挤压。

维护 • 所有维修必须由认证的维修人员进行。设备内部没有用户可以更换的零件。为避免出现触电危险不要自己试图打开设备盖子维修该设备。

通风孔 • 有些设备机壳上有通风槽或孔,它们是用来防止机内敏感元件过热。不要用任何东西挡住通风孔。

锂电池 ◆ 不正确的更换电池会有爆炸的危险。 必须使用与 厂家推荐的相同或相近型号的电池。 按照生产厂的建 议处理废弃电池。

FCC Class A Notice

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation. The Class A limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference, in which case the user will be required to correct the interference at his own expense.



This unit was tested with shielded cables on the peripheral devices. Shielded cables must be used with the unit to ensure compliance with FCC emissions limits.

Quick Start Guide — RCP 2000 with ISS 506 Support

Step 1

Turn the equipment off and disconnect it from the power source. Make sure that the ISS 506 and all attached devices are turned off and, if applicable, disconnected from the power source.

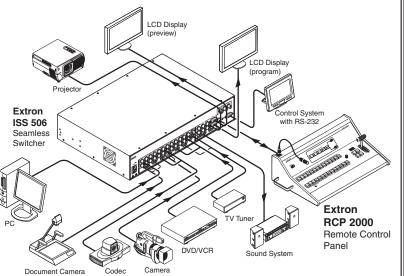
Step 2

Set the RCP 2000 on a table, podium, or other flat surface.

Step 3

If using an RS-232 connection, connect the provided RS-232 cable to the RS-232 port on the rear panel of the ISS and to the To Switcher port on the rear panel of the RCP 2000.

If using an IP connection, connect a network cable to the ISS 506 and the RCP 2000 rear panel Ethernet ports.



NOTE

A 12' male-to-male RS-232 cable is provided with the RCP. This cable can be used to connect the ISS 506 switcher's RS-232 port to the RCP 2000's To Switcher (RS-232) port. If you require a different length of cable, you can make your own communication cable (see "Making an RCP Communication Cable," in chapter 2, "Installation").

Additionally, you can connect the RCP 2000 to the ISS 506 via Ethernet, through a LAN, using a straight-through cable, or directly, using an Ethernet cross-over cable. (Ethernet cables are not provided.)

Quick Start Guide — RCP 2000 with ISS 506 Support, cont'd

Step 4

Complete the procedure for installing the ISS 506. (Refer to the *ISS 506 User's Manual* for installation procedures.)

Step 5

Attach power cords to the ISS 506, the input devices, and the output devices, and plug them into grounded AC sources.

Attach an IEC power cord to the RCP 2000, and plug it into a grounded AC power source.

Step 6

Check the default cycle screens in the LCD window. If a screen with the words "ISS 506 Linked" does not appear in the rotation, do the following:

- Ensure that all devices are plugged in and receiving power.
- Check the cabling and make adjustments as needed.
- Check the RCP and ISS communication settings.

Step 7

If needed, set up the IP information for the RCP to ISS connection. To begin the setup process, press the Color/Tint, Cont/Bright, Size, and Center buttons simultaneously and hold them until the Cut button lights. See "Setting Up IP Communication," in chapter 3, "Operation," for the complete setup procedure.

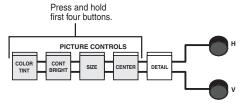


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Chapter One

Introduction

About this Manual

About the RCP 2000 with ISS 506 Support

Application Diagram

Introduction

About this Manual

This manual contains information about the Extron RCP 2000 Remote Control Panel with ISS 506 Support, and describes how to connect and operate it.

About the RCP 2000 with ISS 506 Support

The Extron RCP 2000 remote control panel with ISS 506 support provides complete remote control of the ISS 506 seamless switcher. The RCP controls the input selection, transition effect (cut, dissolve, wipe, PIP [picture-in-picture], or title), transition duration (automatic or T-bar manual control), and picture controls (color, tint, contrast, brightness, sizing, and centering) that are available on the ISS 506 switcher.

The RCP 2000 offers bi-directional Ethernet and RS-232 communication with the ISS 506. It allows full control from either the RCP or the seamless switcher.

Features

Comprehensive picture controls — Enable you to adjust the following:

- Contrast/Brightness Adjusts the light intensity and the range of dark and light values of the output.
- Centering and sizing Allow the output to be centered on the screen or sized, both horizontally and vertically, including a PIP window and image.
- Detail Adjusts the level of picture sharpness.
- Color/Tint Adjusts the intensity and appearance of the picture colors.

Remote operation — Allows an ISS 506 to be operated remotely via Ethernet (Internet or intranet) or RS-232.

Program and preview inputs — Allow you to select inputs for the upcoming switch.

Transition controls (Cut, Dissolve, Wipe, PIP, and Title) — Control the type of switch that occurs between the preview and program outputs. See "Selecting the Display Mode" and "Transition Effects" in chapter 3, "Operation," for descriptions of the transitions controlled by these buttons.

Freeze and Black buttons — Allow you to freeze or blank (display a black screen for) any input on either the program or the preview.

User preset recall — User presets save color, tint, contrast, brightness, detail, sizing, and centering settings on the ISS 506. Up to three presets can be saved on each input. You can recall a preset that was saved to an input button on the ISS by pressing the equivalent Preview input button on the RCP.

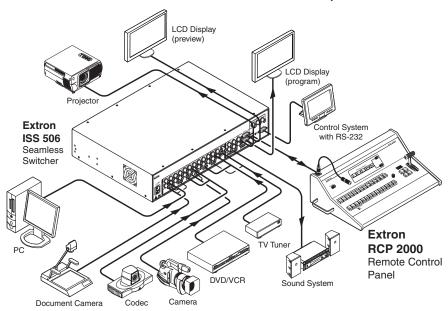
Logos — The RCP can enable logos that have been created and assigned on the ISS 506 to be displayed on the output screen.

Auto Image — Auto Image automatically sizes and centers the selected preview input to fill the screen.

Gooseneck lamp — The provided Littlite® flexible gooseneck lamp can be connected to the XLR lamp socket on the RCP top panel for low-intensity illumination of the control panel in low-light environments.

Application Diagram

The following diagram shows an example of how the RCP 2000 can be connected to the ISS 506 in an A/V system.



Application diagram for RCP 2000 with ISS 506 support



Chapter Two

Installation

Installation Overview

Back Panel Features and Connections

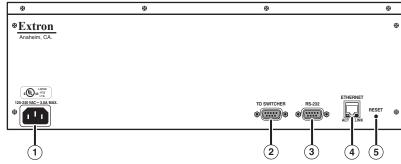
Making an RCP Communication Cable

Installation Overview

Follow these steps to set up and install the RCP 2000 with ISS 506 support:

- 1 Turn all of the equipment off. Make sure that the ISS 506 and all attached devices are turned off and, if applicable, disconnected from the power source.
- **2** Set the RCP 2000 on a table, podium, or other flat surface.
- Connect the RS-232 cable provided with the RCP 2000 to the RS-232 port on the rear panel of the ISS and to the To Switcher port on the rear panel of the RCP 2000; or attach a network cable to the ISS and RCP 2000 Ethernet ports.
- Attach power cords to the ISS 506 switcher, the input devices, and the output devices, and plug them into grounded AC power sources.
- 5 Attach the power cord to the RCP 2000 and plug it into a grounded AC power source.
- Check the default cycle screens in the LCD window. If a screen with the words "ISS 506 Linked" does not appear in the rotation, do the following:
 - Ensure that all devices are plugged in and receiving power.
 - Check the cabling and make adjustments as needed.
 - Check the communication settings of the RCP and ISS.
- [7] If using a network connection, set up communication with the ISS 506 switcher via IP. See "Setting Up IP Communications," in chapter 3, "Operation."

Back Panel Features and Connections



RCP 2000 rear panel

- **AC power connector** Plug a standard IEC power cord from a 100 to 240 VAC, 50/60 Hz power source into this connector.
- **2 To Switcher port** This 9-pin female D connector provides for two-way RS-232 serial communications with the ISS switcher. If using a serial connection, connect an RS-232 cable from this port to the switcher's RS-232 port.
- **3** RS-232 port This 9-pin female D connector provides for two-way RS-232 serial communication with the computer to control the RCP 2000.
- **RJ-45 connector** If using an Ethernet connection, connect the RCP 2000 to an ISS 506, directly with a crossover cable or over a LAN with a patch, using this female RJ-45 connector.
- (5) Reset button Use an Extron Tweeker or other small screwdriver to press this recessed button to reset the RCP 2000 unit. See "Resetting the Unit" in chapter 3, "Operation," for additional information.

Making an RCP Communication Cable

Communication between the RCP 2000 and the ISS 506 is via RS-232 or Ethernet. You are provided with a 12' RS-232 cable. If you need a communication cable of a different length, use the following guidelines to make your own cable.

RS-232 link

Both ends of the RS-232 cable must be terminated with a 9-pin male D connector. See the table below for RS-232 pin assignments.

Pin	RS-232	Function
1	_	Not used
2 3	TX	Transmit data
3	RX	Receive data
4	_	Not used
5	Gnd	Signal ground
6	_	Not used
7	_	Not used
8	_	Not used
9	_	Not used



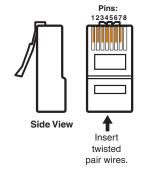
RCP 2000 RS-232 pinout

Installation, cont'd

Ethernet link

The RCP 2000 can also communicate with the ISS 506 via an Ethernet link, using the RJ-45 connectors on the RCP and the ISS. The RJ-45 connector is illustrated at right. The RCP 2000 can be connected to the ISS either directly, or indirectly through a LAN.

 When connecting the RCP 2000 directly (no intermediate device present, such as a network hub) to the ISS 506, you must use a crossover cable. See the table



RJ-45 Ethernet Crossover Cable

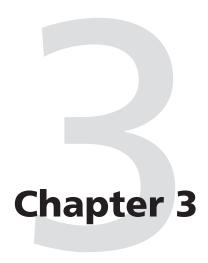
RCP 2000 end (T568B)		ISS 506 end (T568A)			
Pin	Wire color	Signal	Pin	Wire color	Signal
1	White-orange	Transmit +	1	White-green	Receive +
2	Orange	Transmit –	2	Green	Receive –
3	White-green	Receive +	3	White-orange	Transmit +
4	Blue	N/A	4	Blue	N/A
5	White-blue	N/A	5	White-blue	N/A
6	Green	Receive –	6	Orange	Transmit –
7	White-brown	N/A	7	White-brown	N/A
8	Brown	N/A	8	Brown	N/A

 When connecting the RCP 2000 indirectly (through an intermediate device, such as a network hub) to the ISS 506, you must use a patch (straight-through) cable. See the table below for RJ-45 patch cable connections (T568B is the wiring standard).

RJ-45 Ethernet Patch Cable

RCP 2000 end (T568B)		Hub, etc., end (T568B)			
Pin	Wire color	Signal	Pin	Wire color	Signal
1	White-orange	Transmit +	1	White-orange	Receive +
2	Orange	Transmit -	2	Orange	Receive –
3	White-green	Receive +	3	White-green	Transmit +
4	Blue	N/A	4	Blue	N/A
5	White-blue	N/A	5	White-blue	N/A
6	Green	Receive -	6	Green	Transmit –
7	White-brown	N/A	7	White-brown	N/A
8	Brown	N/A	8	Brown	N/A





Operation

Top Panel Controls

Setting Up IP Communication

Setting Up RS-232 Communication

Setting the Display Mode

Using a Cut

Transition Sub-effects

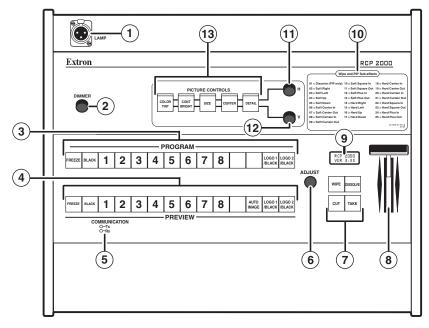
Using the Picture Controls

Resetting

Operation

Top Panel Controls

The top panel contains the buttons, knobs, and the T-handle that are used to set up and control the RCP 2000 with the ISS 506.



RCP 2000 with ISS 506 support top panel

- (1) XLR lamp socket Allows a Littlite® flexible gooseneck lamp to be connected for low intensity illumination of the control panel.
- 2 Lamp dimmer control Rotating this knob adjusts the intensity of the lamp (1).
- **? Program input selection buttons** Allow you to select the program input and to view the image switch as it happens. The button lights for the currently selected program input.
 - Freeze Locks the output display to the image that is currently displayed on the program output.
 - When a program image is frozen, a switch can still occur. When the output is switched, the freeze command stays in effect.
 - o To unfreeze the image, press the Freeze button again.
 - If an image is frozen when a different input is selected, or if the ISS 506 loses power, the image unfreezes.

- Black Causes a black screen to be displayed. You can switch the black screen by applying a cut or another effect.
- 1 through 8 Select the corresponding input (1–6) to be displayed. Normally, you do not use these buttons during a show. If a program input selection button is pressed, the resulting switch is not seamless. (Input buttons 7 and 8 are reserved for future use.)
- Logo 1/Black and Logo 2/Black Display a logo on the output screen if one has been assigned on the ISS 506.

NOTE

Logos must be set up/assigned on the switcher. If no logo is assigned, pressing a Logo button has the same effect as pressing the Black button (a black screen displays and the Logo button flashes).

- Preview input selection buttons Allow you to select a preview input and to view it before switching it to the program output. The button for the selected preview input lights.
 - Freeze Locks the preview image that is currently selected.
 - When a preview image is frozen, a switch can still occur. When the output is switched, the freeze command stays in effect.
 - o To unfreeze the image, press the Freeze button again.
 - If an image is frozen when a different input is selected, or if the ISS 506 loses power, the image unfreezes.
 - Frozen preview inputs cannot have their picture controls adjusted.
 - Black Causes a black screen to be selected for preview.
 You can switch the black screen by applying a cut or another effect.
 - 1 through 8 Select the preview input device (1–6). The button is lit while the input is active. (Input buttons 7 and 8 are reserved for future use.)
 - Auto Image Performs an immediate auto image adjustment on the preview input. Auto image enables you to automatically size and center the selected preview input to fill the screen.
 - Logo 1/Black and Logo 2/Black Display a logo on the preview screen if one has been assigned on the ISS 506.

NOTE

Logos must be set up/assigned on the ISS 506 switcher. If no logo is assigned, pressing a Logo button has the same effect as pressing the Black button (a black screen displays and the Logo button flashes).

3-2

- **Transmit and Receive LEDs** These LEDs flicker whenever Ethernet or RS-232 data to or from the ISS 506 is being transmitted or received by the RCP 2000.
- 6 Adjust knob Allows adjustment of menu selections. See "Setting the Display Mode" or "Transition Sub-effects," later in this chapter.
- **Transition effect buttons** Control the type of switch that occurs between program and preview inputs.
 - Cut button Initiates an immediate seamless transition between the program and preview images. In PIP and Title modes, it seamlessly opens or closes the picture-inpicture or title window.
 - Dissolve button Puts the RCP in Dissolve mode, in which the program input fades out while the preview input fades in. The dissolve duration is adjustable.

NOTE To achieve a dissolve effect when opening or closing the preview window in PIP mode, select sub-effect #01.

In addition, you can press this button while holding down the Wipe button to cycle through the mode menu options (Wipe, PIP, and Title).

 Wipe button — In conjunction with the Dissolve button, selects the display mode (Wipe, PIP, or Title). The Wipe button can also be used as follows:

In Wipe or PIP mode:

- Select a sub-effect by holding down the Wipe button and rotating the Adjust knob until the desired subeffect number is displayed in the LCD window.
- Select the duration of the selected sub-effect by pressing and releasing the Wipe button and rotating the Adjust knob while Wipe remains lit.

In Title mode:

- Adjust the intensity level at or above which the preview image becomes visible over the program image, by holding down Wipe button and rotating the Adjust knob.
- Take button Initiates the switch selected through the transition effect buttons.
- **8** T-bar controller Allows you to manually override the duration of an effect by moving the T-bar handle up or down. (The T-bar cannot be used with a cut or title.)

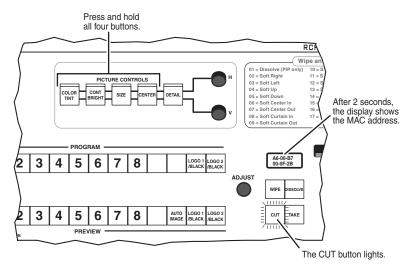
- **9** LCD display Displays status information and menu screens.
- Wipe and PIP Sub-effects label Lists the names and brief descriptions of the transition sub-effects that are available when the RCP is in Wipe or PIP mode.
- Horizontal Adjust knob Allows horizontal adjustments to the centering, sizing, and detail picture controls. Contrast and color are also adjusted using this knob. After selecting an input, press the desired picture control button and rotate this knob to make the adjustment to the preview input.
- **Vertical Adjust knob** Allows vertical adjustments to the centering, sizing, and detail picture controls. Brightness and tint are also adjusted using this knob. After selecting an input, press the desired picture control button and rotate this knob to make the adjustment to the preview input.
- Picture control buttons Allow you to make adjustments to the picture for the preview output. The five control buttons control color and tint, contrast and brightness (Cont/Bright), sizing (Size), centering (Center), and detail. These buttons light when pressed. See "Using the Picture Controls," later in this chapter.

After a preview input is selected, press the desired picture control button, then rotate the appropriate encoder knob (H or V) while viewing the output display. You can adjust the centering, sizing, and detail horizontally or vertically using the horizontal (H) and vertical (V) adjustment knobs. Contrast and color are adjusted. using the H knob; brightness and tint are adjusted using the V knob.

Setting Up IP Communication

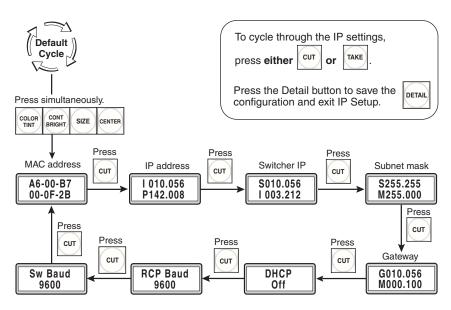
The RCP 2000 is delivered with a factory default IP address of 192.168.254.253. If you want to change this address, or you need to enter other information required for Ethernet or serial communication, follow these steps to set up IP communication via the top panel:

 Press the Color/Tint, Cont/Bright, Size, and Center Picture Control buttons simultaneously, and hold them until the Cut button lights (about 2 seconds). The RCP's MAC address (XX-XX-XX-XX-XX) is displayed on the LCD screen.



Entering IP setup mode

2. Press the Cut or the Take button repeatedly to step through the IP Setup menu options to access the item to be changed.



IP Setup menu

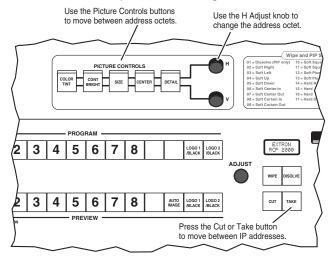
3. To adjust an IP setting (RCP IP address, switcher IP address, subnet mask, or gateway), press the appropriate Picture Control button to select an address block (octet) to change. The selected octet on the LCD screen blinks.



1st octet 2nd octet

3rd octet 4th octet

4. Rotate the H Adjust knob to change the selected value.



Adjusting the IP settings

5. When finished, press the Detail button to save the configuration and exit IP Setup.

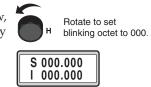
Once the IP addresses have been changed, if required, you can connect to and control the RCP 2000 and the ISS 506 by using Web pages that are resident in firmware on the RCP unit.

Setting Up RS-232 Communication

If you are changing your communication mode from IP to RS-232, you may need to reconfigure the connection to the switcher. To set up RS-232 communication,

- 1. Plug the supplied 12' RS-232 cable into the RCP's rear panel To Switcher port and the switcher's RS232/422 port.
- 2. Press and hold the Color/Tint, Cont/Bright, Size, and Center buttons simultaneously until the Cut button lights and the MAC address appears in the LCD window.

- Press Cut two times, until the switcher IP address is displayed in the LCD window. The Color/Tint button flashes.
- 4. Set the switcher's IP address to 000.000.000.000 as follows:
 - a. Press one of the picture control buttons to access the desired octet of the switcher's IP address.
 - b. When the desired octet is blinking in the LCD window, rotate the H knob all the way to the left to set the address block to 000.



- c. Repeat steps a and b as needed for each address block that needs to be set to 000.
- If you need to change the switcher's baud rate, press Cut repeatedly until the Sw Baud screen appears, then rotate the H knob to set the switcher's baud rate.

Sw Baud 9600

When finished, press the Detail button to save your settings and exit the setup menu.

Setting the Display Mode

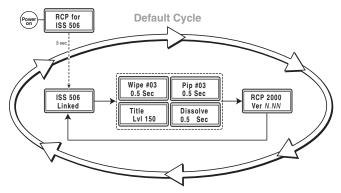
The RCP 2000 with ISS 506 support can operate in the four display modes. The wipe, PIP, and title modes are accessed by selecting them from the modes menu. Dissolve mode is accessed by pressing the Dissolve button.

Default cycle

After power-up and while the RCP 2000 is idle, the LCD screen displays the default cycle of screens, showing

- The status of the link with the ISS 506.
- The current display mode with its sub-effect number (if applicable) and duration
- The product name, RCP 2000, and the current firmware version number (3.nn)

See the diagram on the next page.

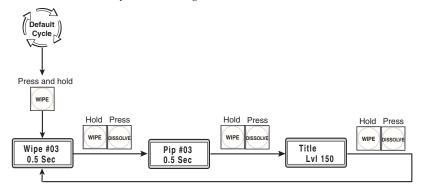


Default cycle

When you press the Wipe or Dissolve button to select a mode, the RCP exits the default cycle and either begins cycling through the Mode menu (Wipe button) or enters Dissolve mode (Dissolve button).

Mode menu options

To display the Mode menu, press and hold the Wipe while the default cycle is running.



Mode menu

The following modes can be selected from the Mode menu.

Wipe mode

In wipe mode, you can select from 24 transition sub-effects (including standard, curtain, square, and plus wipes) to use when the display is changing between the preview image and the program image.

To enter wipe mode,

- Press and hold the Wipe button.
- While holding down the Wipe button, repeatedly press the Dissolve button until "Wipe" is displayed on the LCD screen (see the example at right).

Wipe #03 0.5 Sec

- If necessary, select a preview input.
- Select a wipe transition sub-effect and duration. (See "Selecting a wipe sub-effect," later in this chapter.)

PIP (picture-in-picture) mode

In PIP mode, the preview input is displayed in a small window within the program image. You can select from 25 transition sub-effects (including dissolve, standard, curtain, square, and plus) to use when the PIP window is opening and closing.

To enter PIP mode,

- Press and hold the Wipe button.
- While holding down the Wipe button, repeatedly press the Dissolve button until "Pip" is displayed on the LCD screen (see the example at right).

Pip #03 0.5 Sec

- Select a PIP transition sub-effect and its duration. (See "Selecting a PIP sub-effect," later in this chapter.)
- To execute a preview/program switch in PIP mode, press the Take button.

NOTE

While the PIP window is displayed, the Take button continues to blink, and the Picture Controls buttons, the input buttons, the Wipe and Dissolve buttons, and all Adjust knobs are disabled.

To access these controls, press Take or Cut, or slide the *T-bar all the way up or down. The Take button stops* blinking when the controls are available. The RCP remains in PIP mode; to execute another switch using the same PIP sub-effect, press Take or move the T-bar again.

Title mode

3-10

In title mode, the preview image is superimposed over the program image. You can select a brightness level (0 through 255), which indicates the intensity level at and above which the preview image becomes visible. Any parts of the preview image that are below the set level of intensity become transparent, so that the program image shows through them on the display.

To enter title mode,

- Press and hold the Wipe button.
- While holding down the Wipe button, repeatedly press the Dissolve button until "Title" is displayed on the LCD screen (see the example at right).

Title Lvl 150

Rotate the Adjust knob while the Wipe button is lit to select the intensity level of the preview image that will become transparent in Title mode. If the Wipe button is not lit, press and release it.

NOTE

You cannot apply any transition effects to the preview input when the RCP is in Title mode. The preview image is always displayed or removed with a cut.

- If necessary, select a preview input.
- To execute a preview/program switch with the title effect, press the Take button.

NOTE

While the title is displayed, the Take button continues to blink, and the Picture Controls buttons, the input buttons, the Wipe and Dissolve buttons, and all Adjust knobs are disabled. To access these controls, press Take again or press Cut. The Take button stops blinking when the controls are available. The RCP remains in Title mode; to execute another switch with the title effect, press Take again.

NOTE

The T-bar cannot be used when the RCP is in Title mode.

Dissolve mode

In dissolve mode, the program image fades out while the preview image fades in. This is the only transition effect available for this mode. (Dissolve mode is accessed directly by pressing the Dissolve button; it is not on the Mode menu.)

NOTE

Dissolve mode is full-screen only. To apply a dissolve effect to the preview window in PIP mode, you must select the PIP dissolve sub-effect (#01). See "Transition Sub-effects," later in this chapter.

To enter dissolve mode.

- While the default cycle is running, press the Dissolve button, which lights.
- While the Dissolve button is lit, rotate the Adjust knob to select the duration of the dissolve effect (0.0 to 0.5 seconds) on the LCD screen. If the Dissolve button is not lit, press and release it.

- 3. If necessary, select a preview input.
- 4. To execute a switch with the dissolve effect, press the Take button, which blinks while the transition is in progress.

-or-

Slide the T-bar up or down to control the dissolve duration manually.

Using a Cut

A cut transition immediately and seamlessly replaces the program image with the preview image, in wipe or dissolve mode. In PIP mode, it closes or opens the PIP window. No transition effect is applied to the switch.

NOTE

If you want to switch using your current transition effect, press the Take button instead of the Cut button.

To execute a cut when the RCP is in wipe, dissolve, or PIP mode,

- If necessary, select the preview input.
- Press the Cut button. The seamless switch takes effect immediately. The preview image becomes the new program image (wipe or dissolve mode) or the PIP window closes or opens (PIP mode).



In PIP mode, you cannot select a cut from the PIP subeffects menu; you must press the Cut button to instantly open or close the PIP window.

Transition Sub-effects

A variety of visual effects are available for transitioning between the preview and the program displays in wipe and PIP modes. The sub-effects that are available depend on the display mode in which the RCP is operating. (See "Setting the Display Mode," earlier in this chapter.) You can also set the duration of the sub-effect.

Sub-effects available in wipe and PIP modes

The sub-effects described in the following sections can be selected for the transition between the displayed preview and program inputs in wipe and PIP modes. These sub-effects are listed on the label shown on the next page, which is located to the right of the H and V Adjust knobs on the RCP top panel.

Wipe and PIP Sub-effects 01 = Dissolve (PIP only) 10 = Soft Square In 18 = Hard Center In 02 = Soft Right 11 = Soft Square Out 19 = Hard Center Out 03 = Soft Left 12 = Soft Plus In 20 = Hard Curtain In 04 = Soft Up 13 = Soft Plus Out 21 = Hard Curtain Out 05 = Soft Down 14 = Hard Right 22 = Hard Square In 06 = Soft Center In 15 = Hard Left 23 = Hard Square Out 07 = Soft Center Out 16 = Hard Up 24 = Hard Plus In 08 = Soft Curtain In 17 = Hard Down 25 = Hard Plus Out 09 = Soft Curtain Out 33-1635-01 Rev A 03 08

Standard wipes

A standard wipe sub-effect causes the preview image to appear to unroll over the program image horizontally or vertically. A standard wipe can have either hard (sharp) or soft (blurred) edges.

The following standard wipes are available:

- From left to right Soft Right (#02) or Hard Right (#14)
- From right to left Soft Left (#03) or Hard Left (#15)
- From top to bottom Soft Up (#04) or Hard Up (#16)
- From bottom to top Soft Down (#05) or Hard Down (#17)



Left to right (#02 or #14)



Right to left (#03 or #15)



Bottom to top (#04 or #16)



Top to bottom (#05 or #17)

Curtain wipes

A curtain wipe causes the preview image to appear to unroll over the program image in two directions simultaneously. A curtain wipe can have either hard (sharp) or soft (blurred) edges.

The following curtain wipes are available:

- In from the left and right edges to the center of the screen — Soft Curtain In (#08) or Hard Curtain In (#20)
- Out from the center to the left and right edges of the screen — Soft Curtain Out (#09) or Hard Curtain Out (#21)

- In from the top and bottom edges to the center of the screen Soft Center In (#06) or Hard Center In (#18)
- Out from the center to the top and bottom edges of the screen — Soft Center Out (#07) or Hard Center Out (#19)







Curtain Out (#09 or #21)



Center In (#06 or #18)



Center Out (#07 or #19)

Plus wipes

A plus wipe causes the preview image to appear to unroll over the program image in one of the following ways:

- Starting in all four corners and moving in to the center of the screen — Soft Plus In (#12) and Hard Plus In (#24)
- Starting at the center and moving out to the corners of the screen — Soft Plus Out (#13) and Hard Plus Out (#25)



Plus In (#12 or #24)



Plus Out (#13 or #25)

Square wipes

3-14

A square wipe causes the preview image to appear to unroll over the program image in one of the following ways):

- Starting at all four edges and moving in to the center of the screen — Soft Square In (#10) and Hard Square In (#22)
- Starting at the center and moving out to the edges of the screen Soft Square Out (#11) and Hard Square Out (#23)



Square In (#10 or #22)



Square Out (#11 or #23)

Dissolve (PIP mode only)

A Dissolve sub-effect (#01 on the Sub-effects label) is available for switching the PIP window only. (To use a dissolve effect for a full-screen switch, see "Dissolve mode," earlier in this chapter.)



Setting a transition sub-effect

After you have selected wipe or PIP display mode, you can select a wipe or PIP sub-effect that will be implemented when the RCP switches from the preview to the program input. (The Wipe button accesses the sub-effects in both wipe and PIP modes.)

Selecting a wipe sub-effect

To select the effect with which the full screen transitions from the preview to the program input,

- 1. Select wipe mode (see "Setting the Display Mode," earlier in this chapter).
- 2. Press and hold the Wipe button. The LCD screen shows "Wipe," along with the current sub-effect number and duration.

Wipe #03 0.5 Sec

- 3. While holding down the Wipe button, rotate the Adjust knob until the number of the desired sub-effect is displayed in the LCD window. (See the "Wipe and PIP Sub-effects" label on the RCP's top panel for a list of available wipe effects and their numbers.)
- 4. Release the Wipe button and, while the button remains lit, rotate the Adjust knob to set the amount of seconds that the sub-effect will appear on the screen. You can set the duration of the wipe sub-effect in increments of tenths of a second, 0.0 to 0.5 seconds.

Selecting a PIP sub-effect

To select the effect with which the preview image in the PIP window closes,

- 1. Select PIP mode (see "Setting the Display Mode," earlier in this chapter).
- 2. Press and hold the Wipe button. The LCD screen shows "PIP," along with the current sub-effect number and duration.

Pip #03 0.5 Sec

8. While holding down the Wipe button, rotate the Adjust knob until the number of the desired sub-effect is displayed in the LCD window. (See the "Wipe and PIP Sub-effects" label on the RCP's top panel for a list of available wipe effects and their numbers.)

4. Release the Wipe button and, while the button remains lit, rotate the Adjust knob to set the amount of seconds that the sub-effect will appear on the screen. You can set the duration of the PIP sub-effect in increments of tenths of a second, 0.0 to 0.5 seconds.

Switching with a transition sub-effect

After you have set up a transition sub-effect and its duration, do the following to execute a transition from the preview input to the program input and vice versa:

Press the Take button.

-or-

Move the T-bar up or down to manually control the effect.

In Wipe mode, the button blinks while the transition is taking place.

In PIP mode, the button continues to blink while the PIP window is open. To close the window, press Cut or Take, or slide the T-bar all the way up or down.

Using the Picture Controls

The picture controls allow you to adjust the centering, size, detail, contrast/brightness, and color/tint of the preview image.

- Select a preview input by pressing one of the Preview Input buttons (buttons 1 through 6).
- 2. Press the desired Picture Controls button. The button lights.
- 3. While the button is lit, rotate the H and/or V knob to make your adjustment(s).
- To exit the picture control, wait for the button's light to go out, or press another Preview Input, Picture Controls, or Transition Effects button.

Adjusting color and tint

3-16

- Press and release the Color/Tint button. The button lights.
- 2. While the Color/Tint button is lit,
 - Rotate the H Adjust knob to change the **color**.
 - Rotate the V Adjust knob to change the tint.

Adjusting contrast and brightness

- 1. Press and release the Cont/Bright button. The button lights.
- While the Cont/Bright button is lit,
 - Rotate the H Adjust knob to change the **contrast**.
 - Rotate the V Adjust knob to change the **brightness**.

Sizing an image

- 1. Press and release the Size button. The button lights.
- While the Size button is lit,
 - Rotate the V Adjust knob to adjust the vertical size (height).
 - Rotate the H Adjust knob to adjust the horizontal size (width).

Resizing in PIP mode

To resize the image and/or the PIP window while the RCP is in PIP mode,

- Press the Size button once to enable window resizing.
- 2. Press the Size button again as needed to toggle between PIP window size adjustment and image size adjustment.
- 3. Rotate the H and V Adjust knobs to adjust the width and height of the PIP window or the image.

The Size button stays lit steadily while you are adjusting the PIP window size and blinks while you are adjusting the image size.

Centering an image

To position the image on the screen,

- 1. Press and release the Center button. The button lights.
- 2. Rotate the V Adjust knob to adjust the image position vertically.
- Rotate the H Adjust knob to adjust the image position horizontally.

Centering in PIP mode

To adjust the position of the image and/or the PIP window while the RCP is in PIP mode,

- 1. Press the Center button once to enable window centering.
- Press the Center button again as needed to toggle between PIP window positioning and image positioning.

Rotate the H and V Adjust knobs to move the window or the image up and down (V knob) or left and right (H knob).

The Center button stays lit steadily while you are centering the PIP window and blinks while you are centering the image.

Adjusting the detail (sharpness)

To apply a filter to improve the sharpness of an image,

- 1. Press and release the Detail button. The button lights.
- While the Detail button is lit, rotate either the H or V Adjust knob to the right to increase the sharpness or to the left to decrease it.

Resetting

There are three reset modes available by pressing the recessed Reset button (⑤ on page 2-3) on the rear panel, using a pointed stylus, ballpoint pen, or Extron Tweeker.

CAUTION

Review the reset modes carefully. Using the wrong reset mode may result in unintended loss of flash memory programming, reassignment of ports, or unit reboot.

Mode 1 — Stops all events. Press and hold the Reset button until the LCD screen shows "Reset Mode 1" (3 seconds), then immediately press the button momentarily (for less than 1 second). The LCD screen displays "Unit reset" when the Mode 1 reset is complete.

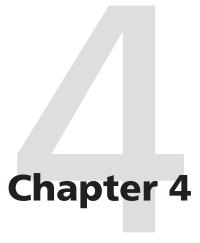
Mode 2 — Erases all user flash memory, resets ports to default conditions, and reboots the unit. Press and hold the Reset button until the LCD screen displays "Reset Mode 2" (5 seconds), then immediately press the button momentarily (for less than 1 second). The LCD screen displays "Unit reset" when the Mode 2 reset is complete.

Mode 3 — Causes an absolute system reset to factory defaults. Press and hold the Reset button until the LCD screen shows "Reset Mode 3" (10 seconds), then immediately press the button momentarily (for less than 1 second). The LCD screen displays "Unit reset" when the Mode 3 reset is complete.

NOTE

Nothing happens if the momentary press does not occur within 1 second.

RCP 2000 with ISS 506 Support



Ethernet Control

Establishing a Connection

Logging On and Viewing System Status

Using the Configuration Screens

Managing Files

Ethernet Control

The RCP 2000 Web pages allow you to control the RCP via Ethernet. They also enable the RCP to control a networked ISS 506 switcher.

Establishing a Connection

The resident Web pages are an alternative means of communication with, and control through, the RCP unit. The Web pages are accessed via a Web browser, such as Internet Explorer (version 5.5 or higher).

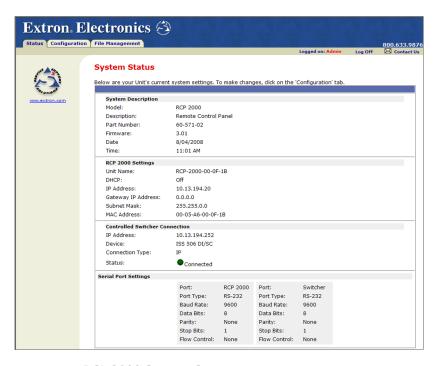
The computer that is used to access the Web server must have a connection in common with the RCP unit. For example, if the unit is connected to your local intranet, the computer that is used to access the unit must also be connected to your local intranet. Similarly, if the unit is connected only to the Internet, the computer that is used to access the unit must have an Internet connection.

If you have established passwords for the unit, you are shown a Password window when your browser accesses the RCP unit. Your level of control over the unit depends on the password you enter on this password screen. If you enter the administrator password, you are permitted to configure or change all settings. If you enter a user password, you are permitted only to control A/V devices and to view status.

Logging On and Viewing System Status

The RCP 2000 Web page has three tabs that you can select to display different screens. When you first log on and access the RCP Web site, the Status tab is selected. The Status tab contains the System Status screen, which provides information on your RCP's current settings. Changes to these settings can be made via the Configuration tab or the RCP 2000 front panel.

- Double-click the Web browser icon on your Windows desktop to launch your Web browser.
- 2. Enter the IP address of the unit (see "Setting Up IP Communication," in chapter 2, "Installation") in the address field at the top of the screen, and press the Enter key. The Password window opens if a password has been set. (This does not happen the first time you access the interface, because no password is set at the factory).
- 3. Enter the appropriate password (if required). The System Status page opens, showing the current RCP IP address, the switcher IP address, and other settings of the unit.



RCP 2000 System Status screen

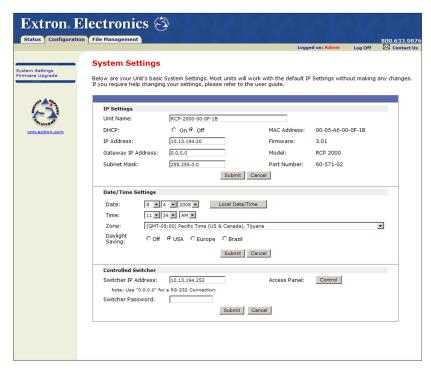
4. When finished viewing, click Log Off in the upper-right corner of the screen to exit the system.

Using the Configuration Screens

When the Configuration tab is selected, two Configuration Web pages are listed in the sidebar menu at the left of the Configuration tab. The following sections describe the changes you can make from these screens.

System Settings screen

The System Settings screen lets you review the configuration of the RCP unit, change the IP settings and adjust the date and time. It also enables you to access the Web pages for the ISS 506 switcher. (See the illustration on the next page.)



RCP 2000 System Settings screen

Entering IP and date/time settings

To change system settings,

- Select the Configuration tab.
- If the System Settings screen is not displayed, click System Settings on the sidebar menu. The System Settings screen opens.
- Make changes in the IP Settings or Date/Time Settings sections as desired.
- After completing your entries in one section, click the Submit button to enter the changes, or click the Cancel button to revert to the previous settings.
- 5. Repeat steps 2 and 3 for the other section as desired.



Be aware that changing the IP address, Subnet mask, or other IP Settings could affect your ability to contact the RCP unit.

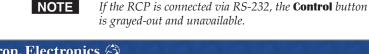
Configuring the ISS 506 switcher

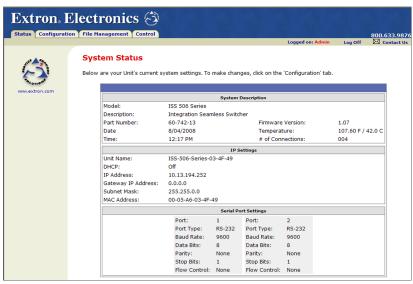
In addition to RCP network configuration, passwords, and similar tasks, the Web pages can be used to control the ISS 506. To control the switcher via the Web pages,

- Select the Configuration tab.
- If the System Settings screen is not displayed, click System Settings on the sidebar menu. The System Settings screen opens.
- In the Controlled Switcher section at the bottom of the System Settings screen, enter the IP address of the switcher that will be controlled by your RCP.

NOTE If your RCP is connected to the switcher via RS-232, enter **0.0.0.0** for this address.

- If required, enter the password for the ISS 506.
- 5. Click the **Submit** button to set the switcher's IP address.
- 6. If you want to access the ISS 506's Web pages to configure the switcher, click the **Control** button. The System Status page for the ISS opens in a separate window.





ISS 506 System Status screen

Refer to your *ISS 506 User's Manual* for information on using its Web pages.

Updating the firmware

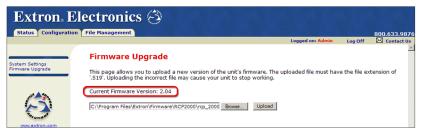
Also available on the Configuration tab is the Firmware Upgrade screen. This screen lets you check and, if necessary, update the firmware for the RCP unit.

NOTE

When you upload a version of firmware to the RCP, the previously loaded version is overwritten.

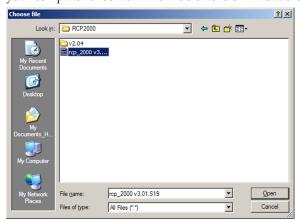
To check and/or upgrade the firmware,

 From the Configuration tab, click Firmware Upgrade in the menu column on the left side of the screen. The Firmware Upgrade screen appears, displaying the current firmware version (outlined in red in the illustration below).



Firmware Upgrade screen

- 2. If you do not have the latest firmware stored on your computer, download it from the Extron Web site and install it on your PC. You are now ready to upload the new firmware to your RCP 2000 with ISS 506 support.
- 3. On the Firmware Upgrade Web page, click Browse to open the Choose File window, and locate the firmware file on your computer or server. The file's extension must be .S19.



Choose file window

CAUTION

Uploading a file with an extension other than .S19 may cause your RCP unit to stop functioning.

- 4. When you have located and selected the firmware file in the Choose file window, click **Open Window** to open the firmware file. Its name appears in the field below the Current Firmware Version number on the Firmware Upgrade screen.
- Click the Upload button on the Firmware Update screen to start the firmware update process. While the firmware is being uploaded, the Upload button changes to Uploading...

When the uploading process is complete, the **Uploading...** button changes back to **Upload**.

NOTE

The original factory-installed firmware is permanently available on the RCP 2000. If the attempted upload of new firmware fails for any reason, the RCP 2000 reverts to the factory-installed firmware.

NOTE

You can downgrade the firmware to the factory-loaded version for a single power cycle by pressing and holding the Reset button on the rear panel while applying power to the RCP. The next time the RCP is powered off and on again, the firmware reverts to the latest version.

Managing Files

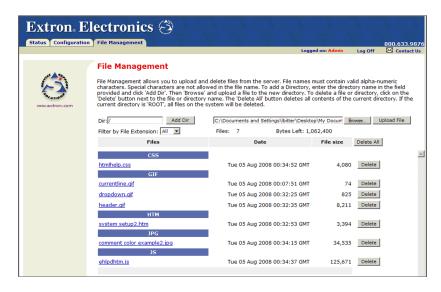
The File Management screen lets you upload new files (for custom or updated Web pages or event scripts to manage effects) to the RCP unit and to delete existing files from it.

Uploading files

To upload new files to the RCP,

1. Select the File Management tab. The File Management screen opens.

Ethernet Control, cont'd



File Management screen

- Click the Browse button. On the Choose File window, browse to locate the file that you want to upload, and open it. The file name and the path to it are displayed in the file name field on the File Management screen.
- 3. Click the **Upload File** button. The selected file name appears in the Files column on the File Management screen. (Files are listed separately under headings of their extensions.)

Adding a directory

To add a directory or folder to the RCP 2000's file system,

- Enter the directory name in the Dir: field, following the slash (/).
- 2. Click the **Add Dir** button.
- With the directory name displayed, perform the Uploading files procedure described in the previous section to add a file to the directory. The directory name appears at the top of the Files column, preceded by a slash.

To add more files to the directory, click the directory name to open it, then use the Uploading files procedure. To exit the directory, click **(root)**.

To add a directory within an existing directory, navigate to and click on the directory folder to open it, then perform steps 1 through 3, above.

Other file management activities

You can also perform the following tasks on the File Management screen:

Opening a file — Click on the name of the file in the Files column.

Deleting a file — Click the **Delete** button at the right end of the line that contains the file you want to remove.

Deleting all files — Click the **Delete All** button.

Viewing by file extension — To display only files of a specific type that have been uploaded to the RCP, select the file type that you want to display from the Filter by File Extension menu. To display all files on the RCP, select All.





Specifications and Part Numbers

Specifications

Part Numbers

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Specifications — RCP 2000 with ISS 506 Support

Control/Remote — Control Panel

Serial control port	RS-232, 9-pin female D connector
Baud rate and protocol	9600, 8-bit, 1 stop bit, no parity
Serial control pin configurations.	2 = TX, $3 = RX$, $5 = GND$
Ethernet control port	1 RJ-45 female connector
Ethernet data rate	10/100Base-T, half/full duplex with
	autodetect
Ethernet protocol	ICMP (ping), TCP/IP, Telnet
Program control	Microsoft® Internet Explorer, Telnet

General

External power supply	100 VAC to 240 VAC, 50/60 Hz, internal
Temperature/humidity	_
	10% to 90%, noncondensing
	Operating: +32 to +122 °F (0 to +50 °C) /
Control	10% to 90%, noncondensing
Cooling	Convection, no vents
Rack mount	No
Enclosure type	Metal
Enclosure dimensions	5.25" H x 16" W x 11.5" D
	(13.3 cm H x 40.6 cm W x 29.2 cm D)
	(Depth excludes connectors and knobs.)
Product weight	15 lbs (6.8 kg)
Shipping weight	22 lbs (10 kg)
Vibration	ISTA 1A in carton
	(International Safe Transit Association)
Regulatory compliance	
Safety	CE, UL, CUL, C-tick
Compliances	CE, FCC Class A, VCCI, C-tick, ICES
MTBF	30,000 hours
Warranty	3 years parts and labor

NOTE

Specifications are subject to change without notice.

Part Numbers

Extron Part	Part Number
RCP 2000 with ISS 506 Support	60-571-02
RS-232 male-male cable, 12' (3.1 m)	26-434-06
RCP 2000 with ISS 506 Support User's Manual	